



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H111022-A

**Mode:** Highway

**Status:** Submitted

## US-1

**From/Cross Street:** Friendship Road

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** NC 540

**Project Category:** Statewide Mobility

**Length:** 1.9

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$20,824,000

### Description:

Widen Roadway to 6 Lanes and Convert Friendship Drive Grade Separation to Diverging Diamond interchange

**Division(s):** Division 5

**County(s):** WAKE

**MPOS(s)/RPO(s):** Capital Area MPO

### Project Location



**Statewide Mobility Total Score: 10.74**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 22.12	N/A	N/A
Safety (10%) 26.97		
Economic Competitiveness (10%) 0.00		
Multimodal + [Freight & Military] (20%) 7.02		
[Travel Time] Benefit/Cost (30%) 0.00		
<b>Totals: Weight: 100% Weighted Score: 10.74</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 22.12	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 26.97		
[Travel Time] Benefit/Cost (25%) 0.00		
Accessibility / Connectivity (10%) 22.00		
<b>Totals: Weight: 70% Weighted Score: 10.43</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 22.12	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 26.97		
[Travel Time] Benefit/Cost (20%) 0.00		
<b>Totals: Weight: 50% Weighted Score: 7.12</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	70
Length (miles):	1.9
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	18000
Capacity:	72400
Volume/Capacity Ratio:	0.25
% Autos:	92%
% Trucks:	8%
Truck Volume:	1404.08
Crash Density:	40.21
Crash Severity:	9.27
Critical Crash Rate:	31.45
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	28
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	90
Actual Congested Speed:	62
Travel Time Index:	1.13

**Project Benefits**

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	70
Length (miles):	1.9
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	0
Travel Time Savings for 30 Years (Autos):	0
Travel Time Savings for 30 Years (Trucks):	0
Long-Term Employment:	0
% Change in Economy:	0
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Capital Area MPO	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$20,776,000	Cost Estimation Tool
Right-of-Way Cost:	\$43,000	Cost Estimation Tool
Utilities Cost:	\$5,000	Cost Estimation Tool
Total Project Cost:	\$20,824,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$20,824,000</b>	